

TASETO Chemical Products

NON DESTRUCTIVE INSPECTION Materials

for Dye Penetrant Inspection

TASETO COLOR CHECK

(Colour Contrast Dye Penetrant / Inspection Materials)

<Product List>

Type		Symbols		Properties	Applications
NORMAL	Standard type	Penetrant Remover " Developer "	FP-S FR-S FR-Q FD-S FD-S (Q)	Solvent removable Low toxic FR-S : Slow drying FR-Q : fast drying FD-S (Q) : Ultra fast drying	General penetrant inspection & penetration test.
	Clear type	Penetrant Remover Developer	P-C FR-Q D-C	Transparent dye penetrant, changes to red color after developing.	
ULTRA(Low halogens, low sulfur)	Standard type	Penetrant Remover Developer "	FP-U FR-U FD-U FD-U(Q)	Low toxic solvent removable (FD-U(Q) : ultra drying)	For nuclear power equipment. Few impurities. S : 10ppm F : 30ppm Cl : 100ppm
	Water washable type	Penetrant Remover Developer "	FPW-U RW-U FD-U FD-U(Q)	Water washable Penetrant Water aerosol remover	

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INCOMBUSTIBLE	Flon type	Penetrant Remover Developer	FP-NE3 FR-NE3 FD-NE3	Low toxic type using flon solvent	Can be used at fire or explosion hazardous places.
	Non-flon type	Penetrant Remover Developer	FP-NE4 FR-NE4 FD-NE4	Low toxic type using non-flon solvent	
WATER WASHABLE	Standard	Penetrant	AW-3	Common type	Used when dye penetrant are removed by water washing. Large-sized parts and mass-produced small items.
	F type	Penetrant	FAW-3	Low toxic Common type	
	Clear	Penetrant	PW-C	Penetrant : Light yellow color changes to red with D-C developer.	
	Water based	Penetrant	FPW-U	For Nuclear uses	
	Hydro-phobic	Penetrant	R-12P	Easy drainage Suitable for surface roughness of max. 70s	
	Water based	Penetrant	DM5	For rough surface materials	
	For Ceramics	Penetrant	CR-10	Most suitable for ceramic materials	
	Water aerosol	Remover	RW-U	Water aerosol for water washable penetrant	
OTHER	High temp. type	Penetrant Remover Developer	P-HE R-HE D-HE	Testing welds and heat treated surfaces under high temperature. (working range 100 - 200)	

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(How To Use)

TASETO COLOR CHECK, the dye penetrant inspection material consisting of three liquids; penetrant, remover and developer, detects minute flaws open to material surfaces.

TASETO COLOR CHECK provides simple and reliable inspections and maintenance of various products and machines.






Features

1. Applicable to all material grades, except for porous materials. Flaws open to material surface can be detected.
2. Flaws are magnified and indicated clearly in red on white developer films.
3. Easy to use; suitable for quick inspections.
4. No special equipment is required.
5. Flaw detectability is high, bringing about highly reliable results.

Applicable materials

- * Ferrous materials : Mild steels, high tensile steels, stainless steel, aluminium, brass, various other alloys.
- * Non-ferrous materials : Ceramics, glass, synthetic resins.

Method of Application

Item	Figure	Application
Pre-cleaning		Remove oil, grease and dirt off the test surface with the remover to let flaws open, and then dry the surface well.
Penetration		Apply the dye penetrant over the test surface. Normal dwelling time is the range of 5 to 20 minutes. If the test is performed under cold temperatures, increase the dwelling time.
Cleaning		Wipe off superficial dye penetrant with a waste soaked with the remover. If you used the water washable penetrant, spray shower water.
Developing		Apply a thin coat of the well agitated developer to the test surface. Normal developing time is 7 to 30 minutes.
Inspection		Evaluate flaw indication after the developer has dried.

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Notes on usage

1. Agitate the developer thoroughly before use.
2. If the aerosol can does not inject uniformly under low temperatures, warm up the can in about 30 tepid water.
3. Except for non-Flammable type COLOR CHECKS, Use extreme care to fire sources.
4. Perform the operation in well ventilated spaces.

Coating area

(Estimates)

Type	Aerosol(300mL)	Aerosol (420mL)	Brushing (1L)
Penetrant	3.6m ²	5 m ²	35 m ²
*Remover	-	-	-
Developer	2.5m ²	4 m ²	30 m ²

*The wiping area of the remover differs largely depending on how it is applied.

Packing units

Aerosol cans

300mL aerosol can (only standard type of Normal Type).

420mL aerosol can.

4-L or 18-L can

1. Aerosol (420mL&300mL)

12 each of the dye penetrant, remover and developer, packing in a carton.

2. Aerosol set

Six-cans set (420mL&300mL) :

Penetrant : 1 aerosol can

Remover : 3 aerosol cans

Developer : 2 aerosol cans

3. One each of 4-L or 18-L can